**Dimensions Resource (res/values/dimens.xml)**

dimens.xml stores **size values** (dp, sp, px) for UI elements.

**Example: res/values/dimens.xml**

<resources>

<dimen name="text\_size">16sp</dimen>

<dimen name="padding\_large">24dp</dimen>

<dimen name="margin\_small">8dp</dimen>

</resources>

**Usage**

**In XML Layout**

<TextView

android:textSize="@dimen/text\_size"

android:padding="@dimen/padding\_large"/>

**In Kotlin Code**

val padding = resources.getDimension(R.dimen.padding\_large)

textView.setPadding(padding.toInt(), padding.toInt(), padding.toInt(), padding.toInt())

**Supporting Different Screen Sizes**

You can create multiple dimens.xml files for **different screen densities**:

| **Screen Type** | **Folder** |
| --- | --- |
| **Small Screens** | res/values-small/dimens.xml |
| **Normal Screens** | res/values/dimens.xml |
| **Large Screens** | res/values-large/dimens.xml |
| **Extra-Large Screens** | res/values-xlarge/dimens.xml |

**Example: res/values-small/dimens.xml**

<resources>

<dimen name="text\_size">14sp</dimen>

</resources>

📌 **Android will use the right dimension based on screen size!** 📱💻